

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001431

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C255/41; C07C255/38; C07C255/32; C07D 213/71; A61P35/00; A61K3/277; A61K31/4402

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07C C07D A61P A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Canadian Patent Database, PAJ, CAS Registry File (STN); CAPLUS, WEST, Delphion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 79158 (ROIFMAN, C. ET AL) 25 October 2001 (25.10.2001) cited in the application	1-19
X	see the whole document, especially compounds CR14, CR15, claims 21-22	20-37
Y	WO 95 24190 (CHEN, H. ET AL) 14 September 1995 (14.09.1995) see the whole document	1-37
Y	US 5,789,427 (CHEN, H. ET AL) 04 August 1998 (04.08.1998) cited in the application Figures 1A, 2B, 2D, 3A, 3C, 3E to 3L col 5 line 4-24, col 43 line 18-line 30, col 43 line 55 to col 44 line 13 compounds M26, M30, M31m M32-M34 Tables 1 and 4	1-37

Further documents are listed in the continuation of Box C. [X]

Patent family members are listed in annex. [X]

* Special categories of cited documents:	"T" later documents published after the international filing date or prior date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search
16 September 2004 (16-09-2004)Date of mailing of the international-type search report
03 December 2004 (03-12-2004)Name and mailing address of the ISA/
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
Facsimile No. 1-819-953-9358Authorized officer
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 96 40629 (TANG, P. ET AL) 19 December 1995 (19.12.1996) (& US 5,935,993; cited in the application) pages 4-6, compounds 731, 740, 741, 744, 748; Examples 4, 5, 7, 18, 20, 27, 34, 42-47, 60-82, 84, 86-88, 90-93; claims 1, 5, 7, 11, 14-17	1-37
X	US 3,718,472 (OLIVER, G. L. ET AL) 27 February 1993 (27.02.1993) col 1 line 35 to col 12 line 12; col 6 line 1 to line 10; claims 1, 8; Example 5	20, 21, 23-27
P, X	WO 03 062190 (ROIFMAN, C. ET AL) 31 July 2003 (31.07.2003) see the whole document	1-37
X	JP-2001066605 (SAKAI, ET AL) 16 March 2001 (16.03.2001) see monomers represented by formulas I and II; Abstract	5 1, 3-
A Y	CA-1,264,594 (PATEL, ET AL) 23 January 1990 (23.01.1990) see Table, Example 2	20-28 30-31
A Y	CHINESE CHEMICAL LETTERS. (ZHONG, ET AL) VOL 2 NO. 9, Pages 683-689, 1991 (E,E) 2,4-pentadienenitrile, 5-(3-nitrophenyl)-2- (phenylsulfonyl)	20-28 30-31

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1 ☒ Claims Nos. : 17-19 & 35-37
because they relate to subject matter not required to be searched by this Authority; namely:
Although claims 17-19 and 35-37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of these compounds/compositions
- 2 ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
- 3 ☐ Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule

Box III Observation where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

- 1 ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2 ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
- 4 ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001431

Patent document	Publication	Patent family	Publication
cited in search report	date	member(s)	date
WO 01 79158 A 2002	25-10-2001	WO 0179158 A3	31-01-
2001		US 20040072803 A1	15-04-
2003		US 20030109502 A1	12-06-
2003		JP 2003531133 T	21-10-
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2001		CA 2406160 AA	25-10-
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2002		US 20020068687 A1	06-06-
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1998		US 5789427 A1	04-08-
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